

Date File Name Date WI-707 6/07 Designed _____ SILT FENCE Drawn . Page 1 of 2 ____ CLIENT: Checked Natural Resources Conservation Service United States Department of Agriculture ----Approved COUNTY: Sheet XX of -

NOTES:

- 1. THE GEOTEXTILE FABRIC SHALL BE PLACED IN THE EXCAVATED TRENCH, BACKFILLED, AND COMPACTED TO THE EXISTING GROUND SURFACE.
- 2. WOODEN SUPPORT POSTS SHALL BE A MINIMUM DIMENSION OF 2" X 2" (NOMINAL) SOFT WOOD OR 1-1/8" x 1-1/8" AIR OR KILN DRIED POSTS OF HICKORY OR OAK. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER LINEAL FOOT. POST SPACING SHALL BE A MAXIMUM OF 8 FEET.
- 3. THE GEOTEXTILE FABRIC SHALL BE ATTACHED DIRECTLY TO THE UPSLOPE SIDE OF WOODEN POSTS WITH WIRE STAPLES IN AT LEAST 3 PLACES, OR WITH WOODEN LATH AND NAILS. ATTACHMENT TO STEEL POSTS WILL BE BY WIRE FASTENERS OR PLASTIC TIE STRAPS.
- 4. A WIRE SUPPORT FENCE MAY BE INSTALLED TO WHICH THE GEOTEXTILE FABRIC IS ATTACHED. THE WIRE SHALL BE A MINIMUM OF 14-1/2 GAGE WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6 INCHES. POST SPACING SHALL BE A MAXIMUM OF 10 FEET. THE GEOTEXTILE FABRIC SHALL BE FOLDED 3 INCHES OVER THE WIRE FENCE AND SECURED WITH STAPLES OR WIRE RINGS SPACED AT 12 INCHES.
- 5. THE GEOTEXTILE FABRIC SHALL CONSIST OF EITHER WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED. HEAT BONDED, RESIN BONDED, OR COMBINATIONS THEREOF. ALL FABRIC SHALL MEET THE FOLLOWING REQUIREMENTS:

TEST REQUIREMENT	<u>METHOD</u>	VALUE *
MINIMUM GRAB TENSILE STRENGTH IN THE MACHINE DIRECTION	ASTM D 4632	120 LBS.
MINIMUM GRAB TENSILE STRENGTH IN THE CROSS MACHINE DIRECTION	ASTM D 4632	100 LBS.
MAXIMUM APPARENT OPENING SIZE EQUIVALENT STANDARD SIEVE	ASTM D 4751	NO. 30
MINIMUM PERMITTIVITY	ASTM D 4491	0.05 SEC
MINIMUM ULTRAVIOLET STABILITY PERCENTAGE OF STRENGTH RETAINED AFTER 500 HOURS OF EXPOSURE	ASTM D 4355	70%

* ALL NUMERICAL VALUES REPRESENT MINIMUM/MAXIMUM AVERAGE ROLL VALUES. (FOR EXAMPLE, THE AVERAGE OF MINIMUM TEST RESULTS ON ANY ROLL IN A LOT SHOULD MEET OR EXCEED THE MINIMUM SPECIFIED VALUES.)

BILL OF MATERIALS

ITEM	QUANTITY
SUPPORT POSTS (4' MIN. LENGTH)	OR WITH
GEOTEXTILE	FT.
WIRE SUPPORT FENCE	FT.
FASTENERS	AS REQUIRED

▼ NID(C	SILT FENCE	Date Designed	File Name Date WI-707 6/07
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SEEDING DATES

TIME PERIOD		DATES		TYPE OF SEEDING
Spring	Thaw	through		Permanent
Summer		through		Temporary *
Fall/Winter		through	snow cover	Dormant

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Mulch withtans per acre of straw or hay reasonably	y free from grain ai	nd weed seed.
If other mulch materials are used, the rate of application	shall meet the man	ufacturer's
recommendations.		
Fertilizer and lime are not recommended for native species	3.	
* Seed a temporary cover crop of	<u>at a rate of</u>	pounds/acre
A permanent seeding shall be completed during the next	acceptable time per	riod following
a temporary seeding.		

MINIMUM PURE LIVE SEED (PLS) RATE PER ACRE AND TOTAL POUNDS OF SEED NEEDED

SEEDING MIX	LOCATION	 	ACRES		
SPECIES	RATE	POUNDS	SPECIES	RATE	POUNDS
					W15.1

1. PLS = (% Germination X % Purity)

SEEDBED PREPARATION

During the recommended seeding periods, seedbed preparation shall immediately follow construction activities. Prepare a fine, firm seedbed to a minimum depth of 3 inches.

SEEDING

Inoculate legumes with the specific inoculum for the species in accordance with the manufacturer's recommendations. Seed grasses and legumes no more than 1/4 inch deep. Seed may be broadcast or drilled directly into the temporary cover residue or prepared seedbed, as appropriate to the site. A hydroseeder is not recommended with notive species. If seed is to be broadcast, native seed shall be mixed with moist sand or sawdust on site. A ratio of 1 part moist sand or moist sawdust to 1 part seed mix by volume shall be used. Cultipack or roll before and after seeding if broadcast.

MULCHING

Spread mulch uniformly. Straw mulch materials shall be stabilized by the use of a disk, by a suitable non—asphaltic tackifier, or by netting. A disk harrow shall have the disks set straight and the harrow shall be used to anchor the straw mulch into the soil. The tackifier shall be applied uniformly over the mulch material at the specified rate, or by injecting it into the mulch material as it is being applied. The netting shall be stapled per the manufacturer's reccomendations.

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NATI	VE SPECIES
SEEDING	ESTABLISHMENT

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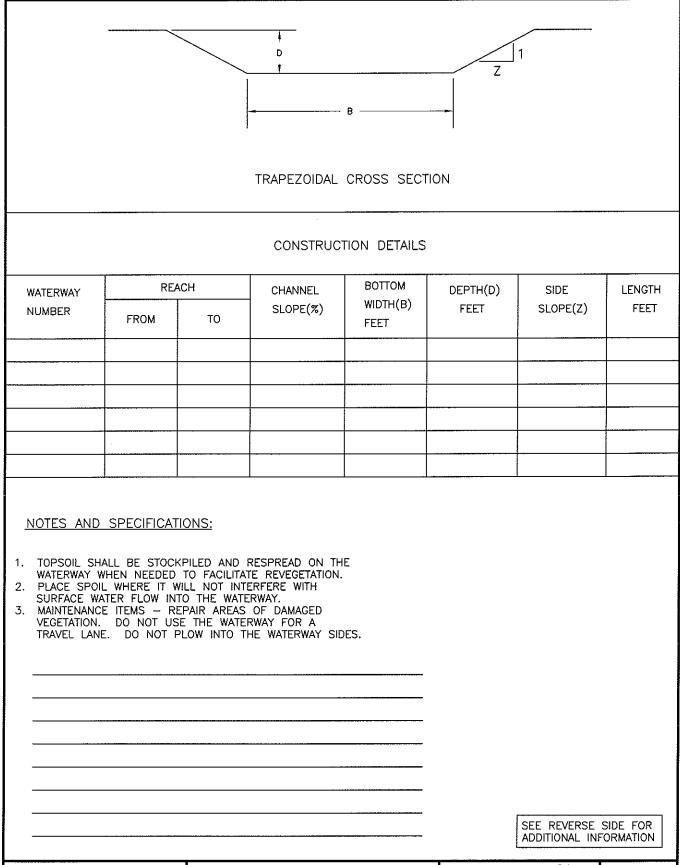
PROFILE ALONG CENTERLINE OF PRINCIPAL SPILLWAY **Ç** EMBANKMENT **C PIPE SUPPORT** TOP OF CONSTRUCTED FILL RISER -ELEV. ELEV. ____ AUXILIARY SPILLWAY -- ELEV. ___ TOP OF STOP -LOGS, ELEV. _ ← EŲEV. . INLET CONDUIT ∠ ELBOW CUTOFF TRENCH OUTLET ELEV.__ CONDUIT ELEV. __ BOTTOM WIDTH ∠ ANTISEEP SIDE SLOPES **COLLARS EXISTING GROUND** MIN. DEPTH ESTIMATE OF MATERIALS ITEM QUANTITY DWG. NO INLET CONDUIT _____ IN. DIAM. CMP, METAL THICKNESS_____ (____ GA.) WITH WATERTIGHT CONNECTIONS (WI CONST. SPEC. 6) - - - - - - - - - - - -____ LIN. FT. OUTLET CONDUIT _____ IN. DIAM. CMP, METAL THICKNESS _____ (____ GA.) WITH WATERTIGHT CONNECTIONS (WI CONST. SPEC. 6) -------_____ LIN. FT. ELBOW TO MATCH OUTLET CONDUIT SIZE (WI CONST. SPEC. 6) -----_____ LIN. FT. RISER _____ IN. DIAM. CMP, METAL THICKNESS _____ (____ GA.) INCLUDING TWO 4' LONG STUBS TO MATCH CONDUIT SIZES (WI CONST. SPEC. 6) ---___ LIN. FT. STOP LOGS _____ THICKNESS (NOMINAL) ------____ LIN. FT. ANTISEEP COLLARS (WI CONST. SPEC. 6) - - - - - - - - - - - -____ NO. PIPE SUPPORT ------. EACH NOTES: 1. THE MOST PERVIOUS FILL IS TO BE PLACED IN THE DOWNSTREAM 1/3 OF THE DAM. 2. CORRUGATED METAL PIPE SHALL HAVE WATERTIGHT CONNECTIONS. THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE. WATER LEVEL CONTROL File Name WI-103 Designed ____ STRUCTURE Date Drawn WITH ROUND RISER 6/07 CLIENT: _ Checked _ Natural Resources Conservation Service

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United States Department of Agriculture

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MAXIMUM PERMISSIBLE VELOCITY =

WATERWAY SOILS

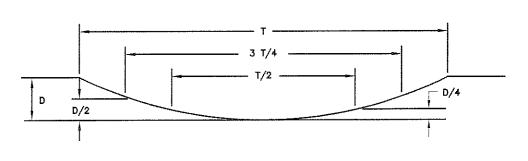
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		-				(VEL)	RET 2
				-			RET 2
						(FPS)	DESIGN
					Anna and a	SLOPE (%)	
TTARAGE						(B)	
						(Z) (FT.)	SIDE
	7					(FT.)	FLOW

- : UNIFIED SOIL CLASSIFICATION SYSTEM
- ? RET (VEL.) IS THE RETARDANCE FOR DETERMINING DESIGN VELOCITY (NORMALLY "D").
 RET (CAP) IS THE RETARDANCE FOR DETERMINING THE FLOW DEPTH FOR CAPACITY (NORMALLY "B" OR "C").

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HIS PRACTICE MEETS NRCS STANDARDS,						WATERWAY NUMBER		
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i					(Z)	SIDE	DATA	
TOTAL					(1)	DEPTH		
					(1.)	LENGTH		

THIS PRACTICE MEETS NRCS STANDARDS, SPECIFICATIONS, AND CONSTRUCTION PLANS.

SIGNATURE & TITLE



PARABOLIC CROSS SECTION

CONSTRUCTION DETAILS

WATERWAY NUMBER	REA	СН	CHANNEL SLOPE(%)	TOP	TOTAL	LENGTH	
	FROM	то		WIDTH(T) FEET	DEPTH(D) FEET	FEET	
							

NOTES AND SPECIFICATIONS:

- TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE WATERWAY WHEN NEEDED TO FACILITATE REVEGETATION.
- 2. PLACE SPOIL WHERE IT WILL NOT INTERFERE WITH SURFACE WATER FLOW INTO THE WATERWAY.
- 3. MAINTENANCE ITEMS REPAIR AREAS OF DAMAGED VEGETATION. DO NOT USE THE WATERWAY FOR A TRAVEL LANE. DO NOT PLOW INTO THE WATERWAY SIDES.

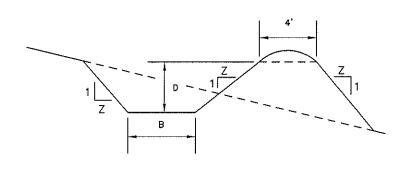
THIS STANDARDIZED DESIGN MUST BE ADAPTED TO THE SPECIFIC SITE.



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WI-402 B SIGNATURE & TITLE THIS PRACTICE MEETS SCS STANDARDS, SPECIFICATIONS, AND CONSTRUCTION PLANS. WATERWAY NUMBER WATERWAY NUMBER Ņ WATERWAY SOILS UNIFIED SOIL CLASSIFICATION SYSTEM RET (VEL) IS THE RETARDANCE FOR DETERMINING DESIGN VELOCITY (NORMALLY "D").
RET (CAP) IS THE RETARDANCE FOR DETERMINING THE FLOW DEPTH FOR CAPACITY (NORMALLY "B" OR "C"). FROM FROM REACH DESIGN DATA REACH る 덩 WIDTH TO VEGETATE E SEEDING AND CONSTRUCTION CHECK D.A. IN (ACRES) DATE AREA (ACRES) (SQ.YDS.) DESIGN FREQ. TOTALS DESIGN DATA Q (CFS) SEEDING IN (ACRES) (VEL) SODDING (SQ.YDS.) (CAP) AS-BUILT DATA CHANNEL SLOPE (%) MAXIMUM PERMISSIBLE VELOCITY = DESIGN (FPS) CHANNEL SLOPE (FT.) (FT.) TOTAL FPS (FT.) PLOW (FT.) WI--402 B



B=BOTTOM WIDTH D=TOTAL DEPTH Z=SIDE SLOPE

TRAPEZOIDAL CROSS SECTION

CONSTRUCTION DETAILS

DIVERSION			CHANNEL	воттом	TOTAL	SIDE	LENGTH
NUMBER	FROM	то	SLOPE(%)	WIDTH(B) FEET	DEPTH(D) FEET	SLOPE(Z)	FEET
-							

NOTES AND SPECIFICATIONS:

- 1. TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE
- 1. TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE DIVERSION WHEN NEEDED TO FACILITATE REVEGETATION.

 2. RIDGE COMPACTION AND ANY PIPE BACKFILL COMPACTION THROUGH THE RIDGE SHALL BE IN ACCORDANCE WITH WI CONSTRUCTION SPECIFICATION 3.

 3. MAINTENANCE ITEMS REPAIR AREAS OF DAMAGED VEGETATION. MAINTAIN THE DIVERSION CHANNEL CAPACITY AND RIDGE HEIGHT.

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DESIGN DATA

DIVERSION SOILS 1 __

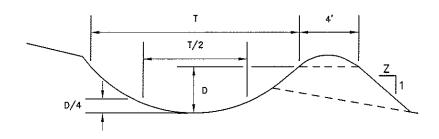
MAXIMUM PERMISSIBLE VELOCITY = _____F

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- 1. UNIFIED SOIL CLASSIFICATION SYSTEM
- Ņ RET (VEL) IS THE RETARDANCE FOR DETERMINING DESIGN VELOCITY (NORMALLY "D").
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- 3. SETTLEMENT SHALL BE A MINIMUM OF TEN (10) PERCENT OF THE FILL HEIGHT.

THIS PRACTICE MEETS NRCS STANDARDS, SPECIFICATIONS, AND CONSTRUCTION PLANS	18452R4LVL-1	TATEORISH OF	- Proposition	THE MANAGEMENT OF THE PARTY OF	NOMBEX	DIVERSION	TO THE PARTY OF TH		17774481	
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T=TOP WIDTH AT TOTAL DEPTH D=TOTAL DEPTH Z= SIDE SLOPE

PARABOLIC CROSS SECTION

CONSTRUCTION DETAILS

DIVERSION	REAC	1	CHANNEL	TOP	TOTAL	SIDE	LENGTH
NUMBER	FROM	то	SLOPE(%)	WIDTH(T) FEET	DEPTH(D) FEET	SLOPE(Z)	FEET

NOTES AND SPECIFICATIONS:

1.	TOPSOIL	SHALL	ΒE	STOC	(PIL I	ED	AND	RE:	SPREAD	ON	THE
	DIVERSION	N WHEN	₹N	EEDED	TO	FΑ	CILITA	ΛTΕ	REVEGE	TATIO	ON.

2. RIDGE COMPACTION AND ANY PIPE BACKFILL COMPACTION THROUGH THE RIDGE SHALL BE IN ACCORDANCE WITH WI CONSTRUCTION SPECIFICATION 3.

3. MAINTENANCE ITEMS — REPAIR AREAS OF DAMAGED VEGETATION. MAINTAIN THE DIVERSION CHANNEL CAPACITY AND RIDGE HEIGHT.

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PARABOLIC DIVERSION

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DESIGN DATA

DIVERSION SOILS __

MAXIMUM PERMISSIBLE VELOCITY == ____FPS

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		FROM TO ACRES	
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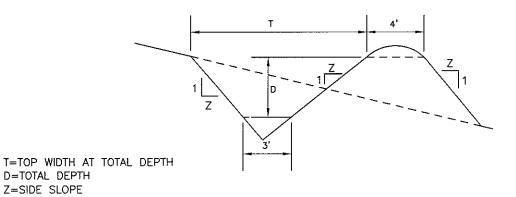
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- 3. SETTLEMENT SHALL BE A MINIMUM OF TEN (10) PERCENT OF THE FILL HEIGHT.

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	TOTAL			(FT.)	TOTAL			
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SPECIFICATIONS, AND CONSTRUCTION PLANS.

SIGNATURE & TITLE



V-SHAPED CROSS SECTION

CONSTRUCTION DETAILS

DIVERSION	REACH		CHANNEL	ТОР	TOTAL	SIDE	LENGTH	
NUMBER	FROM	то	SLOPE(%)	WIDTH(T) FEET	DEPTH(D) FEET	SLOPE(Z)	FEET	
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NOTES AND SPECIFICATIONS:

D=TOTAL DEPTH Z=SIDE SLOPE

- TOPSOIL SHALL BE STOCKPILED AND RESPREAD ON THE DIVERSION WHEN NEEDED TO FACILITATE REVEGETATION.
- 2. RIDGE COMPACTION AND ANY PIPE BACKFILL COMPACTION THROUGH THE RIDGE SHALL BE IN ACCORDANCE WITH WI CONSTRUCTION SPECIFICATION.

3.	MAINTENANCE ITEMS — REPAIR AREAS OF DAMAGED VEGETATION. MAINTAIN THE DIVERSION CHANNEL CAPACITY AND RIDGE HEIGHT.
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DIVERSION SOILS

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		(%) (%) (%)	CHANNEL
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		(FI.)	FLOW
		(FT.)	FREE-
		(FT.)	SETTLE-
		(D) (FT.)	TOTAL

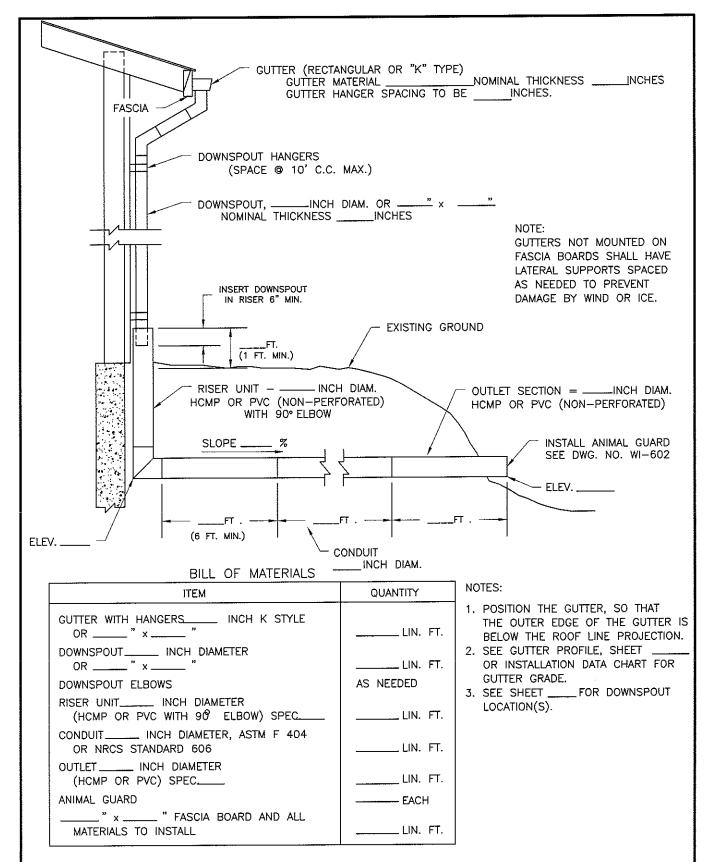
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TOTAL			(FT.)	TOTAL		
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THIS PRACTICE MEETS NRCS STANDARDS, SPECIFICATIONS, AND CONSTRUCTION PLANS.

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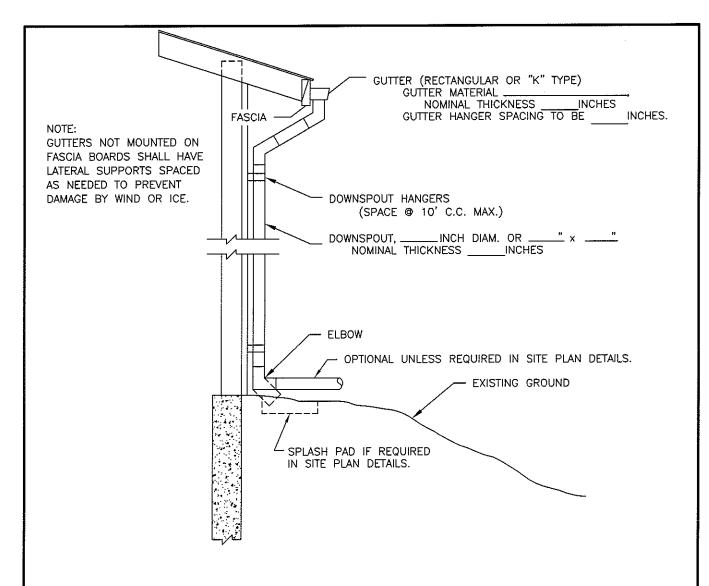
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RAIN	Gl	JTTERS	AND	DO	NNSPOUT	
WIT	ГН	UNDER	GROL	IND	OUTLETS	,

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BILL OF MATERIALS

ITEM	QUANTITY
GUTTER WITH HANGERSINCH K STYLE OR"	LIN. FT.
DOWNSPOUT INCH DIAMETER OR" x"	LIN. FT.
DOWNSPOUT ELBOWS	AS NEEDED
" x" FASCIA BOARD AND ALL MATERIAL TO INSTALL	LIN. FT.

NOTE:

- POSITION THE GUTTER SO THAT THE OUTER EDGE OF THE GUTTER IS BELOW THE ROOF LINE PROJECTION.
- 3. SEE SHEET _____FOR DOWNSPOUT LOCATION(S).

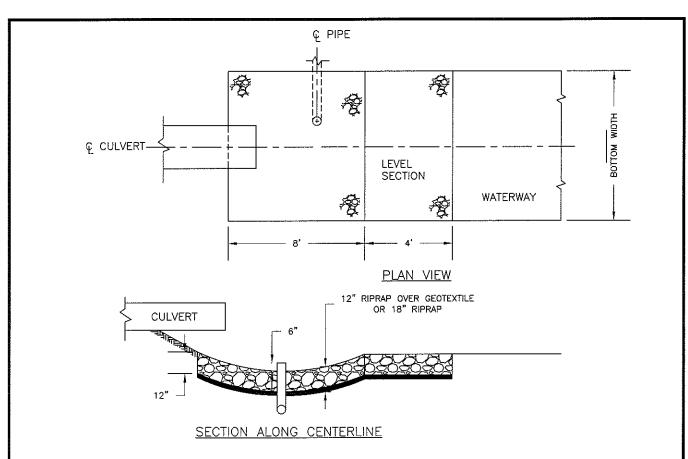
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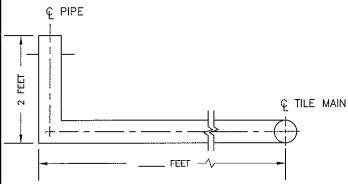
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RAIN	GUTT	ERS	AND	DOWNSPOUTS
	WITH	SUF	RFACE	OUTLETS

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QUANTITIES	
EXCAVATION ROCK RIPRAP GEOTEXTILE NONWOVEN	CU. YD. CU. YD.
CLASS 6-INCH DIA. PIPE	SQ. YDS. LIN. FT.

SEE REVERSE SIDE FOR ADDITIONAL INFORMATION

PIPE DETAILS

NOTES:

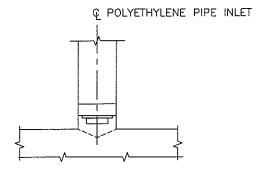
- IF THE SURFACE INLET IS NOT BELOW A CULVERT, A 4 FOOT LEVEL SECTION SHALL BE CONSTRUCTED AT THE UPSTREAM SIDE, SIMILAR TO THE LEVEL SECTION SHOWN.
- 2. USE AN ORIFICE PLATE TO MANTAIN OPEN CHANNEL FLOW IN THE DOWNSTREAM PIPE.
- 3. IF AN ORIFICE IS NOT INSTALLED, PERFORATED PIPE MAY BE USED THROUGH THE RIPRAP SECTION AND SHALL BE WRAPPED WITH GEOTEXTILE.
- 4. THE OUTLET PIPE SHALL BE CONNECTED TO A TILE MAIN INSTALLED ALONG THE WATERWAY.
- 5. THE RIPRAP SHALL BE WELL GRADED FIELD OR QUARRY—RUN STONE WITH A MAXIMUM SIZE OF 12" AND A MINIMUM SIZE OF 2".
- 6. ORIFICE DIAMETER____INCHES



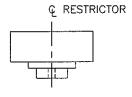
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INLET	FΟ	R W	ATERV	VAYS

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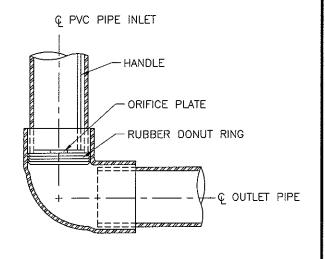


ORIFICE (RESTRICTOR) PLACEMENT DETAIL



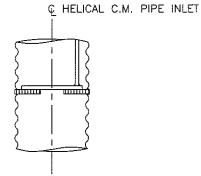
RESTRICTOR DETAIL

REFER TO DRAWING NO. WI-409

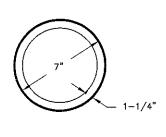


RUBBER DONUT RING ORIFICE SUPPORT

REFER TO DRAWING NO. WI-400



LIP RING AND ORIFICE PLATE DETAIL



LIP RING DETAIL

REFER TO DRAWING NO. WI-401